7343

38063

ecology and environment, inc.

1776 SOUTH JACKSON STREET, DENVER, COLORADO 80210, TEL. 303-757-4984

International Specialists in the Environment

TO : Tom Burns, EPA NPL Coordinator
FROM : Susan Kennedy, E & E FIT
DATE : December 20, 1989
SUBJECT: Transmittal of Supplemental Site Inspection Report for Richardson Flat Tailings, Summit County, Utah, TDD F08-8903-06, PAN FUT0039HDA.

Attached are two copies of the Supplemental Site Inspection Report for Richardson Flat Tailings (TDD F08-8903-06). Your copy doesn't contain Appendix B (Photo Log) and Appendix C (Quality Assurance Review), as they are unchanged from the original report submitted to you by Kevin Mackey on October 13, 1989. The second complete copy with original photos is for Werner Raab of MITRE Corporation.

For your information, I've attached current HRS score sheets for the surface water route and the overall HRS score as I interpret they should be completed based on new information provided in this report.

Tom,

I went ahead and transferred Appendix B (Photo Log) and Appendix C (Quality Assurance Review) from your draft copy of the report (also attached).

Sue

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.						
2 Route Characteristics						4.2
Facility Slope and Intervening Terrain	0 (1) 2 3		1	1	3	
1-yr. 24-hr. Rainfall	0 (1) 2 3		1	1	3	
Distance to Nearest Surface Water	0 1 2 (3)		2	6	6	
Physical State	0 1 (2) 3		1	2	3	
Total Route Characteristics Score				10	15	
3 Containment	0 1 2 (3)		1	3	3	4.3
4 Waste Characteristics						4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)		1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)		1	8	8	
Total Waste Characteristics Score				26	26	
5 Targets						4.5
Surface Water Use	0 1 (2) 3		3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3		2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 (16) 18 20 24 30 32 35 40		1	16	40	
Total Targets Score				22	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				17160	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} =	26.67		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	S	S^2
Groundwater Route Score (S_{gw})	—	—
Surface Water Route Score (S_{sw})	26.67	711.29
Air Route Score (S_a)	48.46	2348.37
$S_{gw}^2 + S_{sw}^2 + S_a^2$		3059.66
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		55.31
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		31.97

FIGURE 10
WORKSHEET FOR COMPUTING S_M